



<b>FORM PTO - 1449</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>	<b>ATTORNEY DOCKET NO.:</b> LS5-001  <b>APPLICANT(S):</b> Liu <i>et al.</i>  <b>SERIAL NO.:</b> 10/643,752  <b>FILING DATE:</b> August 19, 2003 <b>GROUP:</b> 1637
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**U.S. PATENT DOCUMENTS**

EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
SKM	A1	2001/0036638 A1	11/1/01	Nolan <i>et al.</i>		
	A2	2002/0034757 A1	3/21/02	Cubiccioni		
	A3	2002/0038000 A1	3/28/02	Gold <i>et al.</i>		
	A4	2002/0064798 A1	5/30/02	Nolan <i>et al.</i>		
	A5	2003/0104389	6/5/03	Sergeev		
	A6	2003/0113738 A1	6/19/2003	Liu <i>et al.</i>		
	A7	2003/0143561 A1	7/31/03	Pedersen <i>et al.</i>		
	A8	2004/0014090 A1	1/22/2004	Neri <i>et al.</i>		
	A9	2005/0025766 A1	2/3/2005	Liu <i>et al.</i>		
	A10	2005/0042669 A1	2/24/2005	Liu <i>et al.</i>		
	A11	4,683,202	7/28/87	Mullis		
	A12	4,863,857	9/5/89	Blalock <i>et al.</i>		
	A13	5,162,218	11/10/92	Schultz		
	A14	5,270,170	12/14/93	Schatz <i>et al.</i>		
	A15	5,539,082	7/23/96	Nielsen <i>et al.</i>		
	A16	5,547,835	8/20/96	Köster		
	A17	5,559,000	9/24/96	Janda <i>et al.</i>		
	A18	5,573,905	11/12/96	Lerner <i>et al.</i>		
	A19	5,574,141	11/12/96	Seliger <i>et al.</i>		
	A20	5,597,697	1/28/97	Diamond		
	A21	5,605,798	2/25/97	Köster		
	A22	5,622,824	4/22/97	Köster		
↓	A23	5,639,603	6/17/97	Dower <i>et al.</i>		

EXAMINER/Stephanie Mummert/ (06/20/2005) DATE CONSIDERED 06/20/2006

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SKM	A24	5,677,195	10/14/97	Winkler <i>et al.</i>			
	A25	5,691,141	11/25/97	Köster			
	A26	5,698,685	12/16/97	Summerton <i>et al.</i>			
	A27	5,708,153	1/13/98	Dower <i>et al.</i>			
	A28	5,719,262	2/17/98	Buchardt <i>et al.</i>			
	A29	5,721,099	2/24/98	Still <i>et al.</i>			
	A30	5,723,598	3/3/98	Lerner <i>et al.</i>			
	A31	5,770,358	6/23/98	Dower <i>et al.</i>			
	A32	5,786,461	7/28/98	Buchardt <i>et al.</i>			
	A33	5,789,160	8/4/98	Eaton <i>et al.</i>			
	A34	5,789,162	8/4/98	Dower <i>et al.</i>			
	A35	5,811,238	9/22/98	Stemmer <i>et al.</i>			
	A36	5,840,485	11/24/98	Lebl <i>et al.</i>			
	A37	5,843,701	12/1/98	Gold <i>et al.</i>			
	A38	5,846,839	12/8/98	Gallop <i>et al.</i>			
	A39	5,851,765	12/22/98	Köster			
	A40	5,872,003	2/16/99	Köster			
	A41	5,922,545	7/13/99	Mattheakis <i>et al.</i>			
	A42	5,958,691	9/28/99	Pieken <i>et al.</i>			
	A43	5,958,703	9/28/99	Dower <i>et al.</i>			
	A44	5,986,053	11/16/99	Ecker <i>et al.</i>			
	A45	5,998,140	12/7/99	Dervan <i>et al.</i>			
	A46	6,037,120	3/14/00	Brenner			
	A47	6,037,120	3/14/00	Brenner			
	A48	6,060,596	5/9/00	Lerner <i>et al.</i>			
	A49	6,074,823	6/13/00	Köster			
✓	A50	6,080,826	6/27/00	Grubbs <i>et al.</i>			
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SKM	A51	6,127,154	10/3/00	Mosbach <i>et al.</i>			
	A52	6,140,053	10/31/00	Köster			
	A53	6,140,493	10/31/00	Dower <i>et al.</i>			
	A54	6,140,496	10/31/00	Benner			
	A55	6,143,497	11/7/00	Dower <i>et al.</i>			
	A56	6,165,717	12/26/00	Dower <i>et al.</i>			
	A57	6,175,001	1/16/01	Barbas <i>et al.</i>			
	A58	6,194,144	2/27/01	Köster			
	A59	6,194,550	2/27/01	Gold <i>et al.</i>			
	A60	6,207,446	3/27/01	Szostak <i>et al.</i>			
	A61	6,214,553	4/10/01	Szostak <i>et al.</i>			
	A62	6,225,450	5/1/01	Köster			
	A63	6,238,871	5/29/01	Köster			
	A64	6,287,765	9/11/01	Cubiciotti			
	A65	6,291,160	9/18/01	Lerner <i>et al.</i>			
	A66	6,291,161	9/18/01	Lerner <i>et al.</i>			
	A67	6,368,874	4/9/02	Gallop <i>et al.</i>			
	A68	6,436,635	8/20/02	Fu <i>et al.</i>			
↓	A69	6,607,878	8/19/02	Sorge			
	A70	6,680,192	1/20/04	Lerner <i>et al.</i>			

  

FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
SKM	B1	EP 0 324 616 A	7/19/89	EP					
↓	B2	WO 91/05058	4/18/91	PCT					
	B3	WO 92/02536	2/20/92	PCT					
↓	B4	WO 93/06121	4/1/93	PCT					

  

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<b>SKM</b>	<b>B5</b>	<b>WO 96/09316</b>	<b>9/19/95</b>	<b>PCT</b>					
	<b>B6</b>	<b>DE 196 46 372 C1</b>	<b>11/9/96</b>	<b>DE</b>					
	<b>B7</b>	<b>EP 0 604 552</b>	<b>2/12/97</b>	<b>EP</b>					
	<b>B8</b>	<b>EP 0 773 227</b>	<b>5/14/97</b>	<b>EP</b>					
	<b>B9</b>	<b>WO 00/23458</b>	<b>4/27/00</b>	<b>PCT</b>					
	<b>B10</b>	<b>EP 0 643 778</b>	<b>5/31/00</b>	<b>EP</b>					
	<b>B11</b>	<b>WO 00/47775</b>	<b>8/17/00</b>	<b>PCT</b>					
	<b>B12</b>	<b>WO 00/61775</b>	<b>10/19/00</b>	<b>PCT</b>					
	<b>B13</b>	<b>WO 02/102820</b>	<b>12/27/02</b>	<b>PCT</b>					
	<b>B14</b>	<b>WO 02/103008</b>	<b>12/27/02</b>	<b>PCT</b>					
	<b>B15</b>	<b>WO 03/078050</b>	<b>9/25/2003</b>	<b>PCT</b>					
	<b>B16</b>	<b>WO 03/078445</b>	<b>9/25/03</b>	<b>PCT</b>					
	<b>B17</b>	<b>WO 03/078446</b>	<b>9/25/03</b>	<b>PCT</b>					
	<b>B18</b>	<b>WO 03/078625</b>	<b>9/25/03</b>	<b>PCT</b>					
	<b>B19</b>	<b>WO 03/078626</b>	<b>9/25/03</b>	<b>PCT</b>					
	<b>B20</b>	<b>WO 03/078627</b>	<b>9/25/03</b>	<b>PCT</b>					
	<b>B21</b>	<b>WO 03/082901</b>	<b>10/9/03</b>	<b>PCT</b>					
	<b>B22</b>	<b>WO 04/001042</b>	<b>12/31/03</b>	<b>PCT</b>					
	<b>B23</b>	<b>WO 04/013070</b>	<b>2/12/04</b>	<b>PCT</b>					
	<b>B24</b>	<b>WO 04/024929</b>	<b>3/25/04</b>	<b>PCT</b>					
	<b>B25</b>	<b>WO 04/039825</b>	<b>5/13/04</b>	<b>PCT</b>					
	<b>B26</b>	<b>WO 04/056994</b>	<b>7/8/04</b>	<b>PCT</b>					
	<b>B27</b>	<b>WO 04/074429</b>	<b>9/2/04</b>	<b>PCT</b>					
	<b>B28</b>	<b>WO 04/074501</b>	<b>9/2/04</b>	<b>PCT</b>					
	<b>B29</b>	<b>WO 04/083427</b>	<b>9/30/04</b>	<b>PCT</b>					
✓	<b>B30</b>	<b>WO 04/110964</b>	<b>12/23/04</b>	<b>PCT</b>					
	<b>B31</b>	<b>WO 05/003778</b>	<b>1/13/05</b>	<b>PCT</b>					
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SKM	B32	WO 02/074929 A2	9/26/02	PCT					
SKM	B33	WO 04/016767	2/26/04	PCT					
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
SKM	C1	Acevedo <i>et al.</i> , "Non-Enzymatic Transcription of an Oligodeoxynucleotide 14 Residues Long" <i>J. Mol. Biol.</i> 197: 187-193 (1987)							
	C2	Alvarez <i>et al.</i> , "Photocleavable Protecting Groups as Nucleobase Protections Allowed the Solid-Phase Synthesis of Base-Sensitive SATE-Prooligonucleotides" <i>J. Org. Chem.</i> 64: 6319-6328 (1999)							
	C3	Anderson <i>et al.</i> , "A Comparison of Selected mRNA and Protein Abundances in Human Liver" <i>Electrophoresis</i> 18: 533-537 (1997)							
	C4	Arap <i>et al.</i> , "Steps Toward Mapping the Human Vasculature by Phage Display" <i>Nat. Med.</i> 8(2) 121-127 (2002)							
	C5	Arnold <i>et al.</i> , "Directed Evolution of Biocatalysts" <i>Curr. Opin. Chem. Biol.</i> 3: 54-59 (1999)							
	C6	Arnold <i>et al.</i> , "Design by Directed Evolution" <i>Acc. Chem. Res.</i> 31: 125-131 (1998)							
	C7	Bain <i>et al.</i> , "Ribosome-Mediated Incorporation of a Non-Standard Amino Acid into a Peptide Through Expansion of the Genetic Code" <i>Nature</i> 356: 537-539 (1992)							
	C8	Baldwin <i>et al.</i> , "Enzymes in Synthetic Organic Chemistry" <i>Tetrahedron Organic Chemistry Series</i> 12: 1-40							
	C9	Ban <i>et al.</i> , "The Complete Atomic Structure of the Large Ribosomal Subunit at 2.4 Å Resolution" <i>Science</i> 289: 905-920 (2000)							
	C10	Bannwarth <i>et al.</i> , "A Simple and Effective Chemical Phosphorylation Procedure for Biomolecules" <i>Helv. Chim. Acta</i> 70: 175-186 (1987)							
	<del>C11</del>	<del>Barbas <i>et al.</i>, "Phage Display: A Laboratory Manual" Cold Spring Harbor Laboratory Press New York 726 pages (2001) (copy not enclosed)</del>							
SKM	C12	Barbas <i>et al.</i> , <i>Chem. Int. Ed.</i> Vol. 37, 1998. 2872-2875 Benner Reviews							
	C13	Becker <i>et al.</i> , "Synthesis, Sar and In Vivo Activity of Novel Thienopyridine Sulfonamide Pyrrolidinones as Factor Za Inhibitors" <i>Bioorg. Med. Chem. Lett.</i> 9: 2753-2758 (1999)							
	C14	Berger <i>et al.</i> , "Universal Bases for Hybridization, Replication and Chain Termination" <i>Nucleic Acids Research</i> 28(15): 2911-2914 (2000)							
	C15	Blanco <i>et al.</i> , "A Method for Detecting Protein-DNA Interactions at Sites of Chromatin Replication" <i>Analytical Biochemistry</i> 163: 537-545 (1987)							
	C16	Bogarad <i>et al.</i> , "A Hierarchical Approach to Protein Molecular Evolution" <i>Proc. Natl. Acad. Sci. USA</i> 96: 2591-2595 (1999)							
	C17	Böhler <i>et al.</i> , "Template Switching Between PNA and RNA Oligonucleotides" <i>Nature</i> 376: 578-581 (1995)							
	C18	Bolli <i>et al.</i> , "Pyranosyl-RNA: Chiroselective Self-Assembly of Base Sequences by Ligative Oligomerization of Tetranucleotide-2'3'-Cyclophosphates (with a Commentary Concerning the Origin of Biomolecular Homochirality)" <i>Chem. Biol.</i> 4: 309-320 (1997)							
	C19	Boschelli <i>et al.</i> , "Synthesis of Amphotericin B. 2. Fragment C-D of the Aglycone" <i>Tetrahedron Lett.</i> 26: 5239-5242 (1985)							
	C20	Bostwick <i>et al.</i> , "RPR120844, A Novel, Specific Inhibitor of Coagulation Factor Xa Inhibits Venous Thrombosis in the Rabbit" <i>Thromb Haemost</i> 81: 157-160 (1999)							
	C21	Brenner <i>et al.</i> , "Encoded Combinatorial Chemistry" <i>Proc. Natl. Acad. Sci.</i> 89: 5381-5383 (1992)							
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SKM	C22	Brenner <i>et al.</i> , "In Vitro Cloning of Complex Mixtures of DNA on Microbeads: Physical Separation of Differentially Expressed cDNAs" <i>Proc. Natl. Acad. Sci. USA</i> 97(4): 1665-1670 (2000)
	C23	Bresler <i>et al.</i> , "Stability of Peptidyl-tRNA - The Intermediate of Protein Synthesis" <i>Biochimica et Biophysica Acta</i> 155: 465-475 (1968)
	C24	Brooks <i>et al.</i> , "Antiintegrin $\alpha\beta_3$ Blocks Human Breast Cancer Growth and Angiogenesis in Human Skin" <i>J. Clin. Invest.</i> 96: 1815-1822 (1995)
	C25	Brooks <i>et al.</i> , "Disruption of Angiogenesis by PEX, a Noncatalytic Metalloproteinase Fragment with Integrin Binding Activity" <i>Cell</i> 92: 391-400 (1998)
	C26	Brooks <i>et al.</i> , Integrin $\alpha\beta_3$ Antagonists Promote Tumor Regression by Inducing Apoptosis of Angiogenic Blood Vessels" <i>Cell</i> 79: 1157-1164 (1994)
	C27	Bruick <i>et al.</i> , "Template-Directed Ligation of Peptides to Oligonucleotides" <i>Chem. Biol.</i> 3: 49-56 (1996)
	C28	Cadwell <i>et al.</i> , "Randomization of Genes by PCR Mutagenesis" <i>PCR Methods Appl.</i> 2: 28-33 (1992)
	C29	Celewicz <i>et al.</i> , "Mass Spectrometry of Some Derivatives of 5-(Indol-2-yl) Pyrimidine" <i>Pol. J. Chem.</i> 72: 725-734 (1998)
	C30	Chan <i>et al.</i> , "Intra-tRNA distance measurements for nucleocapsid protein-dependent tRNA unwinding during priming of HIV reverse transcription" <i>Proc. Natl. Acad. Sci. USA</i> 96: 459-464 (1999)
	C31	Chen <i>et al.</i> , "Template-Directed Synthesis on Oligodeoxycytidylate and Polydeoxycytidylate Templates" <i>J. Mol. Biol.</i> 181: 271-279 (1985)
	C32	Cho <i>et al.</i> , "An Unnatural Biopolymer" <i>Science</i> 261: 1303-1305 (1993)
	C33	Choi <i>et al.</i> , "Inhibition of Neointimal Hyperplasia by Blocking $\alpha\beta_3$ Integrin with a Small Peptide Antagonist Gpen GRGDSPCA" <i>J. Vasc. Surg.</i> 19: 125-134 (1994)
	C34	Choi-Sledeski <i>et al.</i> , "Sulfonamidopyrrolidinone Factor Xa Inhibitors: Potency and Selectivity Enhancements via P-1 and P-4 Optimization" <i>J. Med. Chem.</i> 42: 3572-3587 (1999)
	C35	Collado <i>et al.</i> , "Diastereoselective Functionalization of 5-Hydroxy Prolinates by Tandem Horner-Emmons-Michael Reaction" <i>Tetrahedron Lett.</i> 35: 8037 (1994)
	C36	Compton, "Nucleic Acid Sequence-Based Amplification" <i>Nature</i> 350: 91-92 (1991)
	C37	Czlapinski <i>et al.</i> , "Nucleic Acid Template-Directed Assembly of Metallosalen-DNA Conjugates" <i>J. Am. Chem. Soc.</i> 123: 8618-8619 (2001)
	C38	Davis, "Intermediates in Amino Acid Biosynthesis" <i>Adv. Enzymol.</i> 16: 287-295 (1955)
	C39	Dechantsreiter <i>et al.</i> , "N-Methylated Cyclic RGD Peptides as Highly Active and Selective $\alpha\beta_3$ Integrin Antagonists" <i>J. Med. Chem.</i> 42: 3033-3040 (1999)
	C40	Dewey <i>et al.</i> , "New Uridine Derivatives for Systematic Evolution of RNA Ligands by Exponential Enrichment" <i>J. Am. Chem. Soc.</i> 117: 8474-8475 (1995)
	C41	Dietz <i>et al.</i> , "Photochemical Reduction of 5-Bromouracil by Cystine Derivatives and Coupling of 5-Bromouracil to Cystine Derivatives: <i>Photochemistry and Photobiology</i> 49(2): 121-129 (1989)
	C42	Drews, "Drug Discovery: A Historical Perspective" <i>Science</i> 287: 1960-1964 (2000)
	C43	Eaton, "The Joys of In Vitro Selection: Chemically Dressing Oligonucleotides to Satisfy Protein Targets" <i>Current Opinion in Chemical Biology</i> 1: 10-16 (1997)
	C44	El-Dorry, "Purification of mRNA Coding for Rat-Liver Fructose- 1,6-bisphosphatase by polysome immunoabsorption" <i>Biochimica et Biophysica Acta</i> 867: 252-255 (1986)
	C45	Eliseev <i>et al.</i> , "Dynamic Combinatorial Chemistry: Evolutionary Formation and Screening of Molecular Libraries" <i>Combinatorial Chemistry in Biology</i> 243: 159-172 (1999)
	C46	Ellis <i>et al.</i> , "Functional Analysis of the T-Cell Restricted Protein Tyrosine Kinase TxK" <i>Biochem. J.</i> 335: 277-284 (1998)
✓	C47	Ewing <i>et al.</i> , "Design and Structure - Activity Relationships of Potent and Selective Inhibitors of Blood Coagulation Factor Xa" <i>J. Med. Chem.</i> 42: 3557-3571 (1999)
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SKM	C48	Famulok <i>et al.</i> , "Oligonucleotide Libraries-Variatio Delectat" <i>Curr. Opin. Chem. Biol.</i> 2: 320-327 (1998)
	C49	Fenn <i>et al.</i> , "Direct Quantitation of Biotin-Labeled Nucleotide Analogs in RNA Transcripts" <i>Analytical Chemistry</i> 190: 78-83 (1990)
	C50	Fleet <i>et al.</i> , "Enantiospecific Synthesis of Shikimic Acid from D-Mannose: Formation of a Chiral Cyclohexene by Intramolecular Olefination of a Carbohydrate-Derived Intermediate" <i>J. Chem. Soc. Perkins, Trans. I</i> : 905-908 (1984)
	C51	Fleischer <i>et al.</i> , "Conversion of Aliphatic and Alicyclic Polyalcohols to the Corresponding Primary Polyamines" <i>J. Org. Chem.</i> 36(20): 3042-3044 (1971)
	C52	Francis <i>et al.</i> , "Combinatorial Libraries of Transition-Metal Complexes, Catalysts and Materials" <i>Curr. Opin. Chem. Biol.</i> 2: 422-428 (1998)
	C53	Francis <i>et al.</i> , "Discovery of Novel Catalysts for Alkene Epoxidation from Metal-Binding Combinatorial Libraries" <i>Angew. Chem. Int. Ed. Engl.</i> 38: 937-941 (1999)
	C54	Frankel <i>et al.</i> , "Encodamers: Unnatural Peptide Oligomers Encoded in RNA" <i>Chemistry and Biology</i> 10: 1043-1050 (2003)
	C55	Friedlander <i>et al.</i> , "Definition of Two Angiogenic Pathways by Distinct $\alpha$ v Integrins" <i>Science</i> 270: 1500-1502 (1995)
	C56	Fruchart <i>et al.</i> , "A New Linker for the Synthesis of C-Terminal Peptide $\alpha$ -oxo-Aldehydes" <i>Tetrahedron Lett.</i> 40: 6225 (1999)
	C57	Fruchtel <i>et al.</i> , "Organic Chemistry on Solid Supports" <i>Angew. Chem. Int. Ed. Engl.</i> 35: 17-42 (1996)
	C58	Gad, "Synaptic Vesicle endocytosis studied in a living synapse" <i>Nobel Institute for Neurophysiology, Karolinska Institutet, Sweden</i> 1-48 (2000)
	C59	Gallop <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery, 1. Background and Peptide Combinatorial Libraries" <i>J. Med. Chem.</i> 37: 1233-1251 (1994)
	C60	Gartner <i>et al.</i> , "The Generality of DNA-Templated Synthesis as a Basis for Evolving Non-Natural Small Molecules" <i>J. Am. Chem. Soc.</i> 123: 6961-6963 (2001)
	C61	Gat <i>et al.</i> , "Reading DNA Differently" <i>Biopolymers</i> 48: 19-28 (1998)
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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>				<b>APPLICANT(S): Liu <i>et al.</i></b>					
				<b>SERIAL NO.: 10/643,752</b>					
				<b>FILING DATE: August 19, 2003 GROUP: 1637</b>					
<b>U.S. PATENT DOCUMENTS</b>									
<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE IF APPROPRIATE</b>		
SKM	A71	2003/0099945	05/29/2003	Eaton <i>et al.</i>			07/30/2001		
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<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
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